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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,860	10/25/2001	Minghua Chen	TRANDIM.007 A	5373
20995	7590	06/26/2006	EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP			MARCELO, MELVIN C	
2040 MAIN STREET			ART UNIT	
FOURTEENTH FLOOR			PAPER NUMBER	
IRVINE, CA 92614			2616	

DATE MAILED: 06/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/053,860

Applicant(s)

CHEN ET AL.

Examiner

Melvin Marcelo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-29 is/are allowed.
- 6) ☒ Claim(s) 30-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. The indicated allowability of claims 30-42 is withdrawn in view of the newly discovered reference(s) to Sugar et al. (US 2002/0061031 A1). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 30-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Sugar et al. (US 20020061031 A1 based on provisional 60/238,761).

With respect to the claims below, references to the prior art appear in parenthesis.

Claims

30. *A traffic coordination system for a wireless communication network (Sugar, Figure 13 and paragraphs 0085-0087), the system comprising:*
a plurality of wireless communication devices which exchange information packets using at least one of a plurality of frequency-overlapping protocols (Devices associated with 802.11 Activity and Bluetooth activity in Figure 13); and
a control point (Control point in the MPD which transmits the guard packet/jamming signal, paragraph 0085) which transmits jamming signals over at least one of the frequency-overlapping protocols to selectively defer the exchange of information packets between at least

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one of the plurality of wireless communication devices (802.11 device defers transmission, paragraph 0085).

31. The system of claim 30, wherein the control point further transmits jamming signals over a first frequency-overlapping protocol such that packet collisions between the first frequency-overlapping protocol and a second frequency-overlapping protocol are reduced (802.11 devices enter the backoff state, paragraph 0086).

32. The system of claim 31, wherein the jamming signal comprises transmitting information packets (Guard packet includes live 802.11 data, paragraph 0087) in the first frequency-overlapping protocol at a power above a threshold level (Energy applied to the 802.11 link must distinguish the busy state from the idle state, paragraph 0086) which results in wireless communication devices using the first frequency-overlapping protocol to perceive a busy status such that the first frequency-overlapping protocol is stalled.

33. The system of claim 31, wherein the jamming signal comprises transmitting valid information packets (Guard packet includes live 802.11 data, paragraph 0087) over the first frequency-overlapping protocol containing information interpreted by wireless communication devices using the first frequency-overlapping protocol to indicate the first frequency-overlapping protocol is busy.

34. The system of claim 31, wherein the jamming signal comprises transmitting valid information packets (Guard packet includes live 802.11 data, paragraph 0087) with a power above a threshold (Energy applied to the 802.11 link must distinguish the busy state from

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the idle state, paragraph 0086) over the first frequency-overlapping protocol containing information interpreted by wireless communication devices using the first frequency-overlapping protocol to indicate the first frequency-overlapping protocol is busy.

35. The system of claim 31, wherein the jamming signal comprises transmitting invalid information packets (**All-zero data portion, paragraph 0086)** over the first frequency-overlapping protocol containing information interpreted by wireless communication devices using the first frequency-overlapping protocol to indicate the first frequency-overlapping protocol is busy.

36. The system of claim 31, wherein the jamming signal comprises transmitting invalid information packets with a power above a threshold (**Energy applied to the 802.11 link must distinguish the busy state from the idle state, paragraph 0086)** over the first frequency-overlapping protocol containing information interpreted by wireless communication devices using the first frequency-overlapping protocol to indicate the first frequency-overlapping protocol is busy.

37. The method for traffic coordination of claim 31, wherein the jamming signals are recognized by the first frequency-overlapping protocol as time reservation packets (**DURID message 309, paragraph 0086)** containing information interpreted by wireless communication devices using the first frequency-overlapping protocol to wait for permission to transmit.

38. *The system of claim 30, wherein the first frequency-overlapping protocol is a frequency-hopping spread spectrum protocol or a direct-sequence spread spectrum protocol (Bluetooth protocol, Figure 13).*

39. *The system of claim 38, wherein the frequency-hopping spread spectrum protocol is a Bluetooth protocol (Bluetooth protocol, Figure 13).*

40. *The system of claim 30, wherein the direct-sequence spread spectrum protocol is a wireless local area network (WLAN) protocol or an IEEE 802.11B protocol (802.11 protocol, Figure 13).*

41. *The system of claim 30, wherein the control point further comprises an access point connected to a backbone network which permits the control point to manage data exchange between the plurality of wireless communication devices and the backbone network (Figure 1, wired LAN backbone).*

42. *The system of claim 41, wherein the backbone network comprises land-based networks including Ethernet (Ethernet is a wired LAN), digital subscriber line, dial-up, or plane telephone networks.*

Allowable Subject Matter

4. Claims 1-29 are allowed.


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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Marcelo whose telephone number is 571-272-3125. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Melvin Marcelo
Primary Examiner
Art Unit 2616

June 12, 2006